AMSAT News Service Weekly Bulletins
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AMSAT NEWS SERVICE
ANS-318
The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

In this edition:

* AMSAT is looking for Volunteers
* Z-Sat launched 8 November 2021, Communication established
* IARU Work Group Works to Protect 23 cm Amateur Band
* Space Physics Professor Seeks Radio Amateurs' Help in Making Space Physics Data Audible
* Changes to AMSAT-NA TLE Distribution as of November 11, 2021
* ARISS News
* Upcoming Satellite Operations
* Hamfests, Conventions, Maker Faires, and Other Events
* Satellite Shorts From All Over

ANS-318 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2021 Nov 14

AMSAT is looking for Volunteers

Keeping Amateur Radio in Space is a team effort and the work of AMSAT is carried out entirely by volunteers. AMSAT needs people with a wide range of technical and non-technical skills. In short, WE NEED YOU! There is no pay, but a great deal of satisfaction in knowing that you are helping make something happen.

AMSAT has volunteer openings in several senior leadership roles, including

- Vice President of User Services
- Secretary
- Volunteer Coordinator
- Public Information Officer

In addition, we have several volunteer opportunities to support functions within AMSAT to include Engineering, News Services, and Administration.

Submit resume or CV with a cover letter explaining what position(s) you are interested in, to Paul Stoetzer, N8HM, Executive Vice President or email info [AT] amsat.org

73,

Robert Bankston, KE4AL
President
Radio Amateur Satellite Corporation (AMSAT)

[ANS thanks the Robert Bankston, KE4AL, President and Paul Stoetzer, N8HM, Executive Vice President, AMSAT for the above information]

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AMSAT, a portion of the proceeds goes towards
Keeping Amateur Radio in Space.
https://amsat.org/product-category/hardware/

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Completing the survey should take no longer than 10 minutes. A participant information sheet offers greater detail. Direct questions should be sent to Archer via email (m.archer10 at imperial dot ac dot uk.

[ANS thanks the ARRL for the above information]

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Kenwood D710E – STATUS - Radio usually off.□ □□
- Power down Progress docking Nov 25 and 6R module docking on Nov 26. OFF Nov. 24 at 09:45 UTC.
- Power down for upcoming US EVA on Nov. 30.
Supporting ROS scheduled voice contacts and SSTV.
The latest information on the operation mode can be found at
https://www.ariss.org/current-status-of-iss-stations.html
The latest list of frequencies in use can be found at https://www.ariss.org/contact-the-iss.html

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors for the above information]

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Satellite Shorts From All Over

+ AMSAT Ambassador Daryl Young (K4RGK) and his wife Lori (K4UPI) represented AMSAT at the Stone Mountain Hamfest on 11/6/2021. The hamfest is the largest in the state of Georgia and serves as the ARRL Georgia Section state convention. (ANS thanks Joe Domaleski, KI4ASK, for the above information)

+ In light of of the successful launch of the Z-Sat, Mike Sartoretti, KC2SYF reminds all S.A.T. device users to autoupdate their devices in order to acquire the new TLE. (ANS thanks Mike Sartoretti, KC2SYF, of CSN Technologies for the above information.)

+ Paul Stoetzer Tweeted: "Congratulations to @KE9AJ and @FG8OJ on the new CAS-4A record of 4,978 km!". https://amsat.org/satellite-distance-records/ Joe Werth, KE9AJ, announced the feat on Nov 6, 2021 via Twitter: "Amazing QSO this morning on CAS-4A with my friend Bertrand, @FG8OJ from the Colorado mountain summit in DM79iq, for a new #AMSAT distance record of 4978.0 km. Thanks Bertrand!" (ANS thanks Paul Stoetzer, N8HM, for the above information.)

+ The International Space Station performed a short engine burn on Wednesday to avoid potentially hitting a chunk of space junk. At 2015 UTC, the thrusters on Russia's Progress MS-18 transport cargo vehicle, which is docked to the ISS, fired for 361 seconds to perform the small nudge, Roscosmos said. The agency confirmed on Twitter it had successfully performed the shift, and that the ISS is now safe from a fragment of China’s Fengyun-1C weather satellite that was whizzing by. [Note: Amateurs using the ARISS repeater will want to update their keps following this change in orbit.] (ANS thanks TheRegister for the above information)

+Raja Chari, KI5LIU, a veteran U.S. Air Force test pilot and combat veteran, is the first rookie astronaut to command a NASA space mission since the final crew blasted off to the Skylab space station in 1973. The 44-year-old Air Force colonel was in command of the brand new SpaceX Dragon, named, “Endurance,” that docked to the International Space Station on Thursday for a nearly six-month expedition. Aboard the station, Chari and his crewmates will perform scientific experiments and maintain the orbiting research lab alongside another NASA astronaut and two Russian cosmonauts who launched on Russian Soyuz spaceships. (ANS thanks Space Flight Now for the above information)

+ The European Space Agency's RadCube, for surveying space weather in low-Earth orbit, has completed its rigorous commissioning phase, culminating in the extension of a magnetometer boom longer than the miniature satellite itself. RadCube is a mission to demonstrate miniaturised technologies for measuring this space radiation environment as well as magnetic field strength. RadCube is a '3-unit' CubeSat, very similar to the planned AMSAT GOLF spaceframes. It was developed for ESA by C3S in Hungary. (ANS thanks Space Daily for the above information)

+ Two NASA astronauts will venture outside the International Space Station on Tuesday, Nov. 30, for a spacewalk to replace a faulty antenna system. NASA astronauts Thomas Marshburn, KE5HOC, and Kayla Barron, KI5LAL, will exit the Quest airlock around 12:10 UTC to replace an S-band Antenna Subassembly (SASA) with a spare already available on the station’s truss structure. The space station transmits low-rate voice and data with flight controllers on the ground over the S-band of radio frequencies. (ANS thanks NASA for the above information)

+ Two Chinese taikonauts completed a space walk on Monday outside the core module of a future space station, with 41-year-old Wang Yaping becoming the first Chinese woman to perform the maneuver, state media reported. Zhai Zhigang, 55, mission commander of Shenzhou-13, opened the hatch of the core cabin Tianhe at 18:51 p.m. (1051 GMT) on Sunday, and was joined by Wang for a space walk that lasted 6-1/2 hours. (ANS thanks Reuters for the above information)

+ John Grant, a Lecturer in Soil Science, Southern Cross University in Lismore, Australia, has calculated that the Moon's surface "regolith" is made up of approximately 45% oxygen -- enough oxygen to support all eight billion people on Earth for somewhere around 100,000 years. But that oxygen is tightly bound into the minerals that can only be released by electrolysis, which requires a great deal of energy. This process is commonly used in manufacturing, such as to produce aluminium. In this case, the oxygen is produced as a byproduct. On the Moon, the oxygen would be the main product and the aluminium (or other metal) extracted would be a potentially useful byproduct. (ANS thanks Space Daily for the above information)

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Jack Spitznagel, KD4IZ
kd4iz at frawg dot org